

at least a demultiplexer for demultiplexing the signal supplied by said analog-to-digital converter,

at least a memory element for storing the demultiplexed signal supplied by said demultiplexer,

- 5 and wherein said trigger generating circuit is connected at the output of said demultiplexer.

27. The modular system of claim 22, wherein said removable connecting element comprises:

- 10 a printed circuit board comprising a plurality of paths enabling said pins of the first series to be electrically connected with said pins of the second series,

at least a protrusion designed to be plugged in one of said acquisition modules so as to prevent said removable connecting element from turning.

- 15 28. The modular system of claim 27, wherein said connection element comprises a housing of plastic material encasing said printed circuit board.

- 20 29. The modular system of claim 22, wherein it comprises at least one connecting element provided with at least one terminating impedance electrically connected between one of said pins and an earth signal, the value of said terminating impedance being about equal to the line impedance of the signal traveling through the pin in question.

- 25 30. The module system of claim 29, wherein the shape of said connecting element with at least one terminating impedance does not allow it to be plugged in between two other connecting elements.